

Project Design Phase II
Solution Requirements (Functional & Non-functional)

Date	22 June 2025
Team ID	LTVIP2025TMID56852
Project Name	ShopEZ E- Commerce Application
Maximum Marks	4 Marks

Functional Requirements:

The following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration & Login	Users can register and log in using email and password
FR-2	Product Discovery & Browsing	Users can view products, use filters, search by category, and view product details
FR-3	Cart & Order Placement	Users can add items to the cart, update quantity, and proceed to checkout
FR-4	Order Management (Admin/Seller Panel)	Admin/sellers can view incoming orders, update status, and manage inventory
FR-5	Product Management (Admin)	Admin can add new products, update existing products, or delete them from the catalog
FR-6	Order Tracking & History	Users can view the status of their orders and check past order history
FR-7	Product Recommendations	System provides personalized product suggestions based on user preferences and history

Non-functional Requirements:

The following are the non-functional requirements of the proposed solution.

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The app should have an intuitive and user-friendly interface, ensuring smooth navigation and accessibility for users of all demographics.
NFR-2	Security	User authentication and data must be secured using encryption (e.g., HTTPS, OAuth for third-party logins). The app should prevent unauthorised access and follow best security practices.
NFR-3	Reliability	The app should ensure a consistent and uninterrupted music

		streaming experience, minimising crashes and downtime.
NFR-4	Performance	Courses should load and stream with minimal buffering. The app should respond to user interactions (search, playback, course management) within 2 seconds.
NFR-5	Availability	The system should maintain an uptime of at least 99.9%, ensuring accessibility across different time zones.
NFR-6	Scalability	The application should handle increasing numbers of users and concurrent streams efficiently without performance degradation. The architecture should support future feature expansion.